**Unit 12 Map (Ecology)**

Ms. Ottolini, AP Biology

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| **Topic** | **Learning Target** | **Where did I learn this?**  (What resources should I use to study?) | **How well do I know this?**  (scale of 1 to 3, with 3 indicating a high level of understanding) |
| Ecosystems | 1. I can identify the different levels of ecological organization and provide examples of biotic and abiotic factors in an ecosystem. |  |  |
| 2. I can distinguish between the two types of ecological succession—primary and secondary. |  |  |
| 3. I can describe the strategies that organisms use to regulate their use of free energy (ex: endothermy and ectothermy). |  |  |
| 4. I can describe the effects of various human activities (ex: introduction of invasive species) and geological / meteorological events (ex: El Nino) on ecosystems. |  |  |
| Communities | 5. I can explain how energy is transferred between different trophic levels in a community (i.e. analyzing and creating food webs). |  |  |
| 6. I can compare / contrast the different types of symbiotic relationships between species in a community (ex: mutualism, commensalism, parasitism, predation, competition) |  |  |
| 7. I can describe the effects of changes to a community (ex: loss of a keystone species). |  |  |
| Populations | 8. I can provide examples of communication between members of a population that enhances survival and reproductive success. |  |  |
| 9. I can describe patterns of growth within populations. |  |  |